

IN THE CLAIMS:

Please find below a listing of all of the pending claims. The statuses of the claims are set forth in parentheses.

1. (Currently Amended) A method of optimizing lifetime of a display, the method comprising:

determining whether to control at least a portion of a display based on a lifetime metric;

identifying a plurality of display control options by using a usage model in response to determining to control the at least a portion of the display; and

selecting at least one of the display control options to control the display;

wherein determining whether to control the display based on a lifetime metric comprises:

a) comparing the lifetime metric to a threshold; and

b) determining to perform the step of identifying a plurality of display control options in response to the lifetime metric exceeding the threshold.

2. (Original) The method of claim 1, further comprising:

implementing the selected display control option to increase a remaining life of the at least a portion of the display.

3. (Canceled).

4. (Original) The method of claim 1, wherein selecting at least one of the display control options comprises:

selecting at least one of the display control options using at least one of the usage model and a lifetime model.

5. (Canceled).

6. (Original) The method of claim 1, wherein selecting at least one of the plurality of display control options comprises:

evaluating the plurality of display control options; and

selecting the at least one of the plurality of display options based on the evaluation.

7. (Original) The method of claim 6, wherein evaluating the plurality of display control options comprises:

identifying a constraint on implementing any one of the plurality of display control options.

8. (Original) The method of claim 7, wherein the constraint comprises a user acceptance setting.

9. (Original) The method of claim 6, wherein evaluating the plurality of display control options comprises:

determining a lifetime savings for each of the plurality of the display control options.

10. (Original) The method of claim 6, wherein evaluating the plurality of display control options comprises:

evaluating lifetime metrics and non-lifetime metrics for each of the plurality of display control options; and

ranking the plurality of display control options based on the evaluation.

11. (Original) The method of claim 10, wherein evaluating lifetime metrics and non-lifetime metrics for each of the plurality of display control options comprises:

using at least one of a lifetime model and a usage model to evaluate lifetime metrics and non-lifetime metrics for each of the plurality of display control options.

12. (Original) The method of claim 1, wherein determining a lifetime metric for at least a portion of the display comprises:

determining at least one of past use and predicted future use of the at least a portion of the display.

13. (Original) The method of claim 1, wherein determining a lifetime metric for at least a portion of the display comprises:

using a lifetime model to determine the lifetime metric, wherein the lifetime model includes an estimation of the lifetime of the at least a portion of the display.

14. (Original) The method of claim 13, wherein the lifetime model comprises a display degradation curve or another similar estimation of remaining lifetime of the display based on past use of the display.

15. (Original) The method of claim 13, wherein using a lifetime model to determine the lifetime metric comprises:

measuring use of the at least a portion of the display; and

applying the measured use to the lifetime model to determine the lifetime metric.

16. (Original) The method of claim 13, wherein using a lifetime model to determine the lifetime metric comprises:

estimating the lifetime costs of applications typically executed on a computer system including the display;

determining properties of screen usage for the display, the display displaying information from the applications;

estimating the use of the at least a portion of the display based on the estimated lifetime costs and determined properties; and

applying the estimated use to the lifetime model to determine the lifetime metric.

17. (Original) The method of claim 1, wherein identifying a plurality of display control options comprises:

analyzing usage of at least one of the display and one or more displays similar to the display;

determining usage patterns from analyzing the usage; and
analyzing the usage patterns to determine the plurality of display control options.

18. (Original) The method of claim 1, wherein the at least a portion of the display comprises at least one of a sub-pixel, a pixel, and a group of pixels in the display.

19. (Original) The method of claim 1, wherein the plurality of display control options comprise parameters for displaying information on the at least a portion of the display.

20. (Currently Amended) A method comprising:

determining a lifetime metric for at least a portion of a display being used using a lifetime model;

determining whether to control the at least a portion of the display based on the lifetime metric; ~~and~~

identifying at least one display control option using a usage model in response to determining to control the at least a portion of the display; and

profiling use of at least one of the display and one or more displays similar to the display to establish the usage model, wherein profiling comprises profiling use by a current user of the display.

21. (Original) The method of claim 20, further comprising:

implementing the at least one display control option to increase the remaining life of the at least a portion of the display.

22. (Original) The method of claim 20, wherein the lifetime model includes an estimation of the lifetime of the at least a portion of the display.

23 and 24 (Canceled).

25. (Currently Amended) The method of claim [[23]] 20, wherein profiling comprises:
analyzing past use of at least one of the display and the one or more similar displays
by a plurality of users.

26. (Currently Amended) An apparatus comprising:
means for displaying information, the means for displaying is being used to display
information;
means for determining a lifetime metric associated with at least a portion of the means
for displaying;
means for determining whether to control the at least a portion of the means for
displaying based on the lifetime metric; ~~and~~
means for identifying a plurality of display control options operable to increase a
remaining life of at least a portion of the display in response to determining to control the at
least a portion of the means for displaying;
usage model means for estimating usage of the means for displaying;
means for evaluating the plurality of display control options using the usage model
means; and

means for selecting at least one of the plurality of display control options based on the evaluation.

27. (Original). The apparatus of claim 26, further comprising:

lifetime model means for estimating a life of the means for displaying.

28 and 29 (Canceled).

30. (Currently Amended) The apparatus of claim [[29]] 26, further comprising:

means for implementing a selected one of the plurality of display control options.

31. (Currently Amended) Computer software embedded on a tangible computer readable storage device medium, the computer software comprising instructions of:

determining whether to control at least a portion of a display being used based on a lifetime metric, wherein determining whether to control at least a portion of a display includes determining to control the at least a portion of the display in response to a lifetime metric exceeding a threshold;

identifying a plurality of display control options in response to determining to control the at least a portion of the display; and

selecting at least one of the plurality of display control options to control the display, wherein the selection includes identifying a user acceptance setting on implementing any one of the plurality of display control options.

32. (Original) The computer software of claim 31, further comprising instructions of:
implementing the selected display control option to increase a remaining life of the at least a portion of the display.

33. (Currently Amended) The computer software of claim 31, wherein the instructions of identifying a plurality of display control options comprise[[s]] instructions of:
identifying a plurality of display control options using a usage model.

34. (Currently Amended) The computer software of claim 33, wherein the instructions of selecting at least one of the display control options comprise[[s]] instructions of:
selecting at least one of the display control options using at least one of the usage model and a lifetime model.

35. (Currently Amended) A computer system comprising:
a display in use and operable to display a visual representation of information on the display;
a processor operable to determine a plurality of display control options for increasing the remaining life of the display, each control option including parameters varying the visual representation of information on the display, wherein the processor is further operable to:
determine to control the display in response to a lifetime metric exceeding a
threshold;
identify the plurality of display control options in response to the
determination to control the display; and

select at least one of the plurality of display control options to control the display, wherein the selection includes identifying a user acceptance setting on implementing any one of the plurality of display control options; and

a display controller operable to receive parameters for the selected at least one of the control options ~~identified by the processor~~ to control the visual representation of information on the display.